

## ABSTRACT

The present invention is directed to a reproducing apparatus for audio signal, which comprises digital filters DF0 to DF<sub>n</sub>, DF0s to DF<sub>ns</sub> each supplied with an audio signal, and a speaker array 10L caused to be of the configuration in which speakers SP0 to SP<sub>n</sub> are arranged. Outputs of the digital filters DF0 to DF<sub>n</sub> are delivered to speakers SP0 to SP<sub>n</sub>. Predetermined delay times are respectively set at the digital filters DF0 to DF<sub>n</sub> so that sound waves radiated from the speakers SP0 to SP<sub>n</sub> are reflected on wall surface, and then arrive at sound field to form a place having sound pressure larger than that therearound within the sound field. Outputs of the digital filters DF0s to DF<sub>ns</sub> are delivered to the speakers SP0 to SP<sub>n</sub>. Predetermined delay times are respectively set at the digital filters DF0s to DF<sub>ns</sub> so as to suppress leakage sound which directly arrives at a place having large sound pressure from the speakers SP0 to SP<sub>n</sub> among sounds formed from outputs of the digital filters DF0 to DF<sub>n</sub>.